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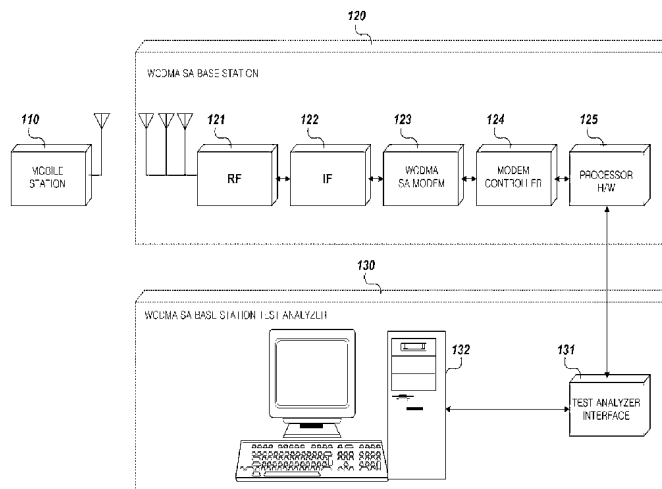
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(54) Title: APPARATUS AND METHOD FOR TESTING AND ANALYZING BASE STATION WITH SMART ANTENNA, AND PROTOCOL STRUCTURE

(57) Abstract: An apparatus (130) for testing and analyzing a base station (120) having a smart antenna in a WCDMA communication system includes a test analyzer body (132) and a test analyzer interface (131). The test analyzer body (132) includes a user interface for generating test calls; a test call processor for selecting a protocol corresponding to the test call, analyzing a signal message for the protocol to monitor a call setup procedure, processing the test call to analyze traffic, and monitoring the traffic quality according to the selected protocol; a data processor for analyzing and processing the performance data of the test call processor; and a network interface for transmitting and receiving the protocol signal message, traffic, and performance message.

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